

nicolagiacchetta

software engineer / engineering manager

contacts

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languages

Italian: mother tongue
English: advanced
French: conversational
Spanish: conversational

skills

Java Ecosystem:
Java, Gradle, Maven,
Jenkins, Dropwizard,
Tomcat, JUnit, Mockito
**Message/Streaming
Platform:** Apache Kafka
Databases:
MySQL, Couchbase
Cloud Services:
AWS Dynamo DB,
Google Cloud Datastore
Collaboration Tools:
GitHub, SVN, Perforce
Frontend: HTML5, CSS3,
Javascript, JQuery
Other: Consul, Docker,
Nomad, Bash, XML, JSON,
Python, Rust, C/C++

interests

Professional
Distributed Systems
Databases
Microservices
Clean Code
Personal
football
tennis
music
vinyls
cooking
photography
traveling

education

Master of Computer Engineering
Università degli Studi di Napoli Federico II
Final Grade: 110/110

Napoli, Italy | Oct 2015

Bachelor of Computer Engineering
Università degli Studi di Napoli Federico II

Napoli, Italy | Dec 2011

work experience

Senior Software Engineer, Infrastructure *Meta*

London, UK | Sep 2020–Present

Working in the Database Engineering team, responsible for the fleet management of datastores at Meta.

- developed a unified platform to orchestrate and execute seamless datastore instance placements for different datastores ensuring reliability and availability of the fleet
- contributed to the maintenance of one of the biggest MySQL infrastructure on earth (over 1M nodes and 25 DCs)
- interviewed over 50 candidates
- mentored junior and mid individual contributors

Java Backend Developer *Vonage*

London, UK | Dec 2016–Aug 2020

Designed and maintained the core backend of a Cloud Communication Platform, mainly focused on services High-Availability, data replication and data migration.

- worked on a tool for Change Data Capture to perform MySQL Binlog Mining for Primary-Secondary replication, changes notifications and generation of materialized view
- worked on database migrations
- extracted microservices from a complex monolithic application
- worked on performance bottlenecks due to the low cardinality of AWS Dynamo DB indexes
- built a new Database Engineering team of 4 ICs
- mentored junior team members and took part in many hiring processes

Software Engineer *EidosMedia*

Milan, Italy | Dec 2015–Oct 2016

Developed a software layer to expose the core functionalities of the backend of a Digital Content Publishing Platform via RESTful APIs.

- developed new RESTful APIs
- developed algorithms to manage the internal document model of the platform

Research & Development Intern *NEC Laboratories Europe*

Heidelberg, Germany | Jan–Jun 2015

Built a Java module implementing a resource efficient sensor allocation algorithm for geographic range queries to be integrated in the IoT Broker GE.

- carried out most of the scientific research to find an algorithmic solution for the problem
- implemented the chosen algorithm in Java and a JavaFX-based simulation environment

extra curricular activities

O'Reilly: Software Architecture Conference *Conference Talk*

Berlin, DE | 4-7 Nov 2019

Extensible autonomous transactions in the world of microservices

ApacheCon Europe 2019 *Conference Talk*

Berlin, DE | 22-24 Oct 2019

Extensible Autonomous Transactions In The World of Microservices using Apache Kafka

Team Kanban Practitioner (TKP) *Lean Kanban University*

London, UK | Jun 2017

Completed training in improved collaboration and Team Kanban concepts based on the Kanban method and accepted by Lean Kanban University as a Team Kanban Practitioner.

Co-Founder & Administrator *Zerottouno.it*

Naples, Italy | Jan 2012–Feb 2013

Co-founded a website where the users could get all-round information about the town of Naples. The aim was to create a virtual community built around a news aggregator.

- co-managed a team of 9 people (6 bloggers, 1 UI designer, 2 Developers)
- built a community of thousands of active users (~N x 100K unique page-views per Month)